GP 18455

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*In re* application of:

Nazarenko et al.

Appl. No. 09/599,594

Filed: June 22, 2000

For: Improved Primers and Methods for the Detection and Discrimination

of Nucleic Acids

Art Unit:

1645

Examiner:

To Be Assigned

Atty. Docket: 0942.4980002/RWE/KKV

RECEIVED

**Information Disclosure Statement** 

JAN 17 2001

Commissioner for Patents Washington, DC 20231

**TECH CENTER 1600/2900** 

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Document AS4 is in a foreign language. An English translation is not readily available. Document AS4 appears to show that in FRET (fluorescence resonance energy transfer) (wherein energy is passed non-radiatively over a long distance (10-100 A) between a donor molecule, which is a fluorophore, and an acceptor molecule), the donor absorbs a photon and transfers this energy non-radiatively to the acceptor. Further, document AS4 appears to show that the efficiency of energy transfer is proportional to D x 10<sup>-6</sup>, where D is

the distance between the donor and acceptor. Effectively, this means that FRET can most efficiently occur up to distances of about 70 A.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Kristin K. Vidovich Attorney for Applicants

Must K. Vidaver

Registration No. 41,448

Date: <u>A. J. 2001</u> 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 (202) 371-2600

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INFORMATION DISCLOSURE STATEMENT

\*TTY. DOCKET NO. 0942.4980002/RWE/KKV APPLICATION NO. 09/599,594

APPLICANT

Nazarenko et al.

FILING DATE June 22, 2000 GROUP 1645

				v.s.	PATENT DOCUMENTS				
EXAMINER INITIAL		DOC NUM	UMENT BER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE	
	AA1	4,3	58,535	11/09/1982	Falkow et al.	435	5	12/08/1980	
	AB1		46,237	05/01/1984	Berninger	436	504	03/27/1981	
	AC1		63,417	01/07/1986	Albarella et al.	435	6	01/07/1986	
	AD1	4,5	81,333	04/08/1986	Kourilsky et al.	435	6	04/29/1982	
	AE1	4,5	82,788	04/15/1986	Erlich	435	6	01/07/1983	
	AF1	4,5	82,789	04/15/1986	Sheldon, III et al.	435	6	12/18/1984	
	AG1		83,194	07/28/1987	Saiki et al.	435	6	03/28/1985	
	AH1	4,6	83,202	07/28/1987	Mullis	435	91	10/25/1985	
	AI1	4,8	89,818	12/26/1989	Gelfand et al.	435	194	06/17/1987	
	AJ1	4,9	65,188	10/23/1990	Mullis et al.	435	6	06/17/1987	
	AK1		47,342	09/10/1991	Chatterjee	435	194	08/10/1989	
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EXAMINER INITIAL		DOC'	UMENT BER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
	AL1	EP	0 50,424	09/24/1981	Europe			Yes No	
	AM1	EP	0 84,796	01/11/1983	Europe	P		Yes No	
	AN1	EP	0 144 914	11/29/1984	Europe			Yes No	
-	A01	EP	0 119 448	02/10/1984	Europe	·		Yes No	
	AP1	EP	0 201 184	03/27/1986	Europe			Yes No	
			OTHER (Incl	uding Author,	Title, Date, Pertinent P	Pages, etc.)		*	
	AR	1	nucleoprot	ein gene expr eotides contai	fic inhibition of influer ession by circular dumbbe ning antisense phosphodie er Science Publishers B.V	ell RNA/DNA d ester oligon	chimeric ucleotides	s," FEBS	
	AS	<u>1</u>	Austermann, S., et al., "Inhibition of Human Immunodeficiency Virus Type 1 Reverse Transcriptase by 3'-Blocked Oligonucleotide Primers," Biochem. Pharmacol. 43:2581-2589, Elsevier Science, Oxford, England (1992).						
	AT	<u>1</u>	N-terminal		lity of <i>Taq</i> polymerase ca ene 112:29-35, Elsevier S (1992).				

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INFORMATION DISCLOSURE STATEMENT

TECH CENTER 1500/2900 APPLICATION NO. 09/599,594 TY. DOCKET NO. 942.4980002/RWE/KKV

APPLICANT

Nazarenko et al.

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				II.S.	PATENT DOCUMENTS					
EXAMINER INITIAL		DOC	UMENT BER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE		
	AA2	5,0	79,352	01/07/1992	Gelfand et al.	536	27	05/15/1990		
	AB2	5,1	43,854	09/01/1992	Pirrung et al.	436	518	03/07/1990		
	AC2	5,1	37,814	08/11/1992	Rashtchian et al.	435	91	06/14/1991		
	AD2	5,1	94,370	03/16/1993	Berninger et al.	436	501	05/16/1990		
	AE2	5,2	44,797	09/14/1993	Kotewicz et al.	435	194	03/18/1991		
	AF2	5,2	52,743	10/12/1993	Barrett et al.	548	303.7	11/13/1990		
	AG2	5,2	70,179	12/14/1993	Chatterjee	435	69.1	01/28/1992		
	AH2	5,3	34,515	08/02/1994	Rashtchian et al.	435	91.2	03/29/1993		
	AI2	5,3	38,671	08/16/1994	Scalice et al.	435	91.2	10/07/1992		
	AJ2	5,3	48,853	09/20/1994	Wang et al.	435	6	12/16/1991		
	AK2	5,3	74,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990		
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EXAMINER INITIAL		DOC'	UMENT BER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
	AL2	EP	0 237 362	03/13/1987	Europe			Yes No		
	AM2	EP	0 258 017	08/21/1987	Europe	r <sup>2</sup>		Yes No		
	AN2	EP	0 329 822	08/26/1988	Europe			Yes No		
	A02	WO	88/10315	12/29/1988	WIPO			Yes No		
	AP2	WO	89/06700	07/27/1989	WIPO			Yes No		
			OTHER (Inc.	luding Author,	Title, Date, Pertinent	Pages, etc.)				
	AR	2	structure	d DNA probes.	nermodynamic basis of the Proc. Natl. Acad. Sci. the USA, Washington, D.C	USA 96:6171-	·6176, Nat	of ional		
	AS	2	fluoresce	nce resonance	tion of nucleic acid hybrenergy transfer," <i>Proc.</i> Academy of Sciences of t	Natl. Acad.	Sci. USA			
	AT	2	Chedin, F., et al., "Novel homology of replication protein A in archaea: implications for the evolution of ssDNA-binding proteins," TIBS 23:273-277, International Union of Biochemistry and Elsevier Trends Journal, Cambridge, England (1998).							
EXAMINER		<u> </u>	<u></u>			DATE CONS	SIDERED			

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				U.S.	PATENT DOCUMENTS			
EXAMINER INITIAL		DOC NUM	UMENT BER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA3	5,4	36,149	07/25/1995	Barnes	435	194	02/19/1993
	AB3	5,4	36,327	07/25/1995	Southern et al.	536	25.34	10/21/1989
	AC3	5,4	45,934	08/29/1995	Fodor et al.	435	6	10/30/1992
	AD3	5,4	49,603	09/12/1995	Nielson et al.	435	6	10/24/1989
	AE3	5,4	55,166	10/03/1995	Walker	435	91.2	01/09/1992
	AF3	5,5	12,462	04/30/1996	Cheng	435	91.2	02/25/1994
	AG3	5,5	78,467	11/26/1996	Schuster et al.	435	91.2	05/20/1994
	АН3	5,5	87,287	12/24/1996	Scalice et al.	435	6	04/07/1994
	AI3	5,5	93,840	01/14/1997	Bhatnagar et al.	435	6	06/05/1995
-	AJ3	5,5	94,183	01/14/1997	Colin	73	864.52	07/26/1994
3 -	AK3	5,5	95,890	01/21/1997	Newton et al.	435	91.2	02/17/1995
		(4)		FOREIG	N PATENT DOCUMENTS			
EXAMINER INITIAL		DOC NUM	UMENT BER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL3	WO	90/03446	04/5/1990	WIPO			Yes No
	АМЗ	WO 92/06188		04/16/1992	WIPO			Yes No
*	AN3	WO	92/06200	04/16/1992	WIPO	*	9	Yes
	A03	WO	92/14845	09/03/1992	WIPO			Yes No
	AP3	EP	0 684 315	03/13/1995	Europe			Yes No
		·+	OTHER (Inc	luding Author,	Title, Date, Pertinent P	ages, etc.)		
	AR	<u>3</u>	Structure	of the Four-W	Fluorescence Resonance Ene Way DNA Junction," <i>Biochem</i> Ington D.C. (1992).			
	AS	<u>3</u>	Clegg, R.I	M., "Fluoresce 211:353-388, F	ence Resonance Energy Tran Academic Press Inc., New Y	sfer and Nu Ork, NY (19	cleic Ació 92).	ls," Methods
	Clegg, R.M., et al., "Observing the helical geometry of double-stranded DNA i solution by fluorescence resonance energy transfer," Proc. Natl. Acad. Sci. I 90:2994-2998, National Academy of Sciences of the USA, Washington, D.C. (1993)							
EXAMINER		<b>I</b>				DATE CONS	IDERED	

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4980002/RWE/KKV

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APPLICANT

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FILING DATE June 22, 2000 GROUP 1645

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EXAMINER INITIAL			CUMENT MBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA4	5,5	599,695	02/04/1997	Pease et al.	435	91.1	02/27/1995
	AB4	5,6	505,824	02/25/1997	Nielson et al.	435	194	06/16/1993
	AC4	5,6	514,365	03/25/1997	Tabor et al.	435	6	11/10/1994
	AD4	5,6	39,611	06/17/1997	Wallace et al.	435	6	11/09/1994
	AE4	5,6	346,019	07/08/1997	Nielson et al.	435	91.5	04/07/1994
· X	AF4	5,6	68,005	09/16/1997	Kotewicz et al.	435	194	03/12/1996
	AG4	5,7	728,526	03/17/1998	George, Jr. et al.	435	6	01/07/1995
	AH4	5,7	763,170	06/09/1998	Raybuck	435	6	06/05/1995
	AI4	5,7	773,257	06/30/1998	Nielson et al.	435	91.1	06/06/1995
*	AJ4	5,8	300,992	09/01/1998	Fodor et al.	435	6	06/25/1996
	AK4	5,8	337,832	11/17/1998	Chee et al.	536	22.1	05/16/1995
				FOREIG	N PATENT DOCUMENTS			*
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EXAMINER INITIAL			UMENT IBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL4	WO	96/10640	04/11/1996	WIPO		<u>.</u>	Yes No
	AM4	EP	0 436 644 B1	04/17/1996	Europe			Yes No
	AN4	EP	0 795 612 A2	09/17/1997	Europe			Yes No
	A04	WO	98/35060	08/13/1998	WIPO			Yes No
****	AP4	WO	98/47921	10/29/1998	WIPO	:		Yes No
	-		OTHER (Inclu	ding Author,	Title, Date, Pertinent Pag	es, etc.)	-	
	AR	<u>4</u>			"A rapid PCR fidelity assay iversity Press, Oxford, Eng			
	AS	4	zwischenmo.	lekularen Übe	telle und theoretische Unte rgangs von Elektronenanregu Zeitschrift für Naturforsch	ngsenergie	e," Z. Nat	
	AT	4	Minus Rever	rse Transcrip	cDNA Synthesis by Moloney M tase Possessing Full DNA Po gies, Inc., Gaithersburg, M	lymerase A		
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				U.S.	PATENT DOCUMENTS			
EXAMINER INITIAL			CUMENT 4BER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA5	5,8	346,729	12/08/1998	Wu et al.	435	6	07/01/1997
	AB5		366,336	02/02/1999	Nazarenko et al.	435	6	01/03/1997
	AC5		369,251	02/09/1999	Schuster et al.	435	6	11/25/1996
	AD5	5,8	376,930	03/02/1999	Livak et al.	435	6	11/15/1995
	AE5		925,517	07/20/1999	Tyagi, et al.	435	6	05/12/1995
	AF5		948,899	09/07/1999	Arnold, Jr. et al.	536	24.3	06/05/1995
	AG5	5,9	952,172	09/14/1999	Mende et al.	435	6	06/12/1997
	AH5	6,0	037,130	03/14/2000	Tyagi, et al.	435	6	07/28/1998
	AI5	6,0	048,690	04/11/2000	Heller et al.	435	6	05/14/1997
	AJ5	6,0	090,552	07/18/2000	Nazarenko et al.	435	6	07/11/1997
	AK5		714,331	02/03/1998	Buchardt et al.	435	6	07/24/1996
-				FOREIG	N PATENT DOCUMENTS			
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INITIAL			CUMENT MBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL5	WO	99/10366	03/04/1999	WIPO			Yes No
	AM5	EP	0 795 612 A3	03/24/1999	Europe			Yes No
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	AO			2.73		e	×	Yes No
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			OTHER (Incl	ıding Author,	Title, Date, Pertinent Pa	ages, etc.)		
	AR	<u>5</u>	by utilizing polymerase	ng the 5'→3' ," <i>Proc. Natl</i>	"Detection of specific po exonuclease activity of <i>T</i> . Acad. Sci. USA 88:7276- shington, D.C. (1991).	Thermus aqua	aticus DNA	
	AS	<u>5</u>			everse Transcriptase from ican Society for Microbio			
	AT	<u>5</u>	Defined Te	mplate/Primer aracteristics	rs, D.K., "Inhibition of H DNA Oligonucleotides: Ef ," <i>J. Enzyme Inhib</i> . 8:91-	fect of Tem	plate Leng	th and
EXAMINER	1	<u> </u>	1			DATE CONS	IDERED	

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PPLICANT Nazarenko et al.

FILING DATE June 22, 2000

GROUP 1645

09/599,594

A A A A A A A A A A A A A A A A A A A	AA6 AB AC AD AE AF AG AH AI AJ AK	DOCUMENT NUMBER  5,736,336  DOCUMENT NUMBER	DATE  04/07/1998	NAME  Buchardt et al.  GN PATENT DOCUMENTS	CLASS 435	SUB-CLASS	FILING DATE 05/01/1997
INITIAL  AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AB AC AD AE AF AG AH AI AJ AK	NUMBER 5,736,336  DOCUMENT	04/07/1998	Buchardt et al.		CLASS	
A A A A A A A A A A A A A A A A A A A	AB AC AD AE AF AG AH AI AJ AK	DOCUMENT			435	6	05/01/1997
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AT	T	6 Stranded	DNA Fragments	Specificity-Enhanced Hot Adapted to the Annealin ishing Company, Natick,	g Temperature	" BioTech	E Double- nniques
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FORM PTO-1449  INFORMATION DISCLOSURE ST	JAN 1 2 2001	ATTY. DOCKET NO. 0942.4980002/RWE/KKV APPLICANT Nazarenko et al.	APPLICATION NO. 09/599,594
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	AP						No
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	AR	7 DNA-bin	nding protein fr	"Identification and cha rom the archaeon <i>Methan</i> 34-14639, National Acad 3).	ococcus jannasci	hii," Proc	c. Natl.
	AS	7   Short S	Synthetic DNA's	Studies on Polynucleotic as Catalyzed by DNA Po Press, Inc., New York, I	olymerases, " J. 1	ir Replica Mol. Biol.	tions of
	АТ	7 reverse	transcriptase	., "Isolation of cloned lacking ribonuclease H / Press, Oxford, England	activity," Nuc.	leukemia l. Acids R	virus ?es. 16:265-
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with

next communication to Applicant.

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MTY. DOCKET NO. \$942.4980002/RWE/KKV

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	AO					*		Yes No
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	AS	<u>8</u>	amplified hybridizat	human immunod ion format,"	anscription-based ampli eficiency virus type 1 <i>Proc. Natl. Acad. Sci.</i> Washington, D.C. (1989	with a bead-ba <i>USA 86</i> :1173-13	ased sandw	rich
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U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AA AΒ AC AD ΑE AF AG AΗ ΑI ΑJ AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS Yes ΑL No Yes ΜA No Yes ΑN No Yes AO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Lee, L.G., et al., "Allelic discrimination by nick-translation PCR with AR 9 fluorogenic probes, " Nucl. Acids Res. 21:3761-3766, Oxford University Press, Oxford, England (1993). Luo, G., et al., "Inhibition of influenza viral polymerases by minimal viral RNA decoys," J. Gen. Virol. 78:2329-2333, Society for General Microbiology, London, AS <u>9</u> England (1997). Lyamichev, V., et al., "Structure-Specific Endonucleolytic Cleavage of Nucleic ΑT 2 Acids by Eubacterial DNA Polymerases," Science 260:778-783, Association for the Advancement of Science, Washington D.C. (1993). EXAMINER DATE CONSIDERED

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AT/TY. DOCKET NO. 4942.4980002/RWE/KKV

APPLICATION NO. 09/599,594

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT OF MARK

APPLICANT Nazarenko et al.

FILING DATE June 22, 2000 GROUP 1645

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	AR	10	Maury, G. Inhibitor	, et al., "Te	mplate. Phosphorothioate verse Transcriptase," <i>Bio</i> c Press, Inc., Orlando, F	Oligonucleoti		
)	AS	10	Polymeras	e Chain React	pecific Enzymatic Amplifi ion," <i>Cold Spring Harbor</i> oratory Of Quantitative B	Symp. Quant.	Biol. 51:	263-273,
	AT	10	Inhibit to Protein, "	he Regulatory Antimicrobio	ecoy Approach Using RNA-D Function of Human Immuno 1. Agents Chemother. 41:3 on D.C. (1997).	deficiency Vi	rus Type	1 Rev
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INFORMATION DISCLOSURE STATEMENT ADFMARM

ATTY. DOCKET NO. 0942.4980002/RWE/KKV

APPLICATION NO. 09/599,594

APPLICANT

Nazarenko et al.

FILING DATE
June 22, 2000

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	AR	<u>11</u>	of DNA ba	ased on ener	<i>al.</i> , "A closed t gy transfer," <i>Nu</i> ford, England (1	cl. Acids Res.	amplifica 25:2516-2	ation and 2521, Oxfo	detection ord
	AS	11	backbone-	labeled sit	ghlin, L.W., "Th es in DNA using 5205-5214, Oxfor	fluorescence r	esonance e	energy tra	insfer,"
	АТ	<u>11</u>	Deoxyribo Replicati	polynucleot on," <i>J. Bio</i>	na, H.G., "Studi ide Templates to <i>1. Chem. 249:</i> 521 y, Inc., Baltimo	Cellulose and 3-5221, Americ	its Use i an Society	n Their	
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	AS	12	Thermostal	ole DNA Polyme	rimer-Directed Enzymatic Am rase," <i>Science 239</i> :487-491, Washington D.C.(1988).			
	АТ	<u>12</u>	oligodeoxy	mucleoside me	nhibition of acquired immun thylphosphonates," <i>Proc. Na</i> of Sciences of the USA, Was	tl. Acad.	Sci. USA	85:7448-
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A**Y**Y. DOCKET NO. 42.4980002/RWE/KKV

APPLICATION NO. 09/599,594

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	AS	13	Selvin, P 246:300-3	.R., "Fluores 34, Academic	scence Resonance Ene Press Inc., New Yor	ergy Transfer," rk, NY (1995).	Methods	: Enzymc	D1.
	АТ	<u>13</u>	Selvin, P.R., and Hearst, J.E., "Luminescence energy transfer using a terbium chelate: Improvements on fluorescence energy transfer," <i>Proc. Natl. Acad. Sci. USA 91</i> :10024-10028, National Academy of Sciences of the USA, Washington, D.C. (1994).						
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## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4980002/RWE/KKV APPLICATION NO. 09/599,594

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Nazarenko et al.

FILING DATE June 22, 2000 GROUP 1645

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	AS	14	Stein, C.A., et al., "Physicochemical properties of phosphorothicate oligodeoxynucleotides," <i>Nucl. Acids Res.</i> 16:3209-3221, Oxford University Press, Oxford, England (1988).							
	AT	14	Tyagi, S Hybridiz NY (1996	ation," <i>Nature</i>	F.R., "Molecular Beac Biotechnol. 14:303-30	ons: Probes tha 9, Nature Publi	t Fluoresshing Co.	ce Upon , New York,		
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ATTY. DOCKET NO. 0942.4980002/RWE/KKV

APPLICATION NO. 09/599,594

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Nazarenko et al.

FILING DATE
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	AR	<u>15</u>	Array Elec	ctrophoresis a	d Sizing of Short Tandem Re nd Energy-Transfer Fluoresc Chemical Society, Washingto	ent Prime	rs," Anal.		
	AS	<u>15</u>	Wu, D.Y., et al., "Allele-specific enzymatic amplification of β-globin genomic DNA for diagnosis of sickle cell anemia," Proc. Natl. Acad. Sci. USA 86:2757-2760, National Academy of Sciences of the USA, Washington, D.C. (1989).						
	AT	<u>15</u>	Specific I	NA Sequences	Ligation Amplification Read Using Sequential Rounds of demic Press , San Diego, CA	Template-I	-Amplific Dependent	ation of Ligation,"	
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APPLICATION NO. 09/599,594

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Nazarenko et al.

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	AR	<u>16</u>	Xu, D., et al., "Melting and Premelting Transitions of an Oligomer Measured by DNA Base Fluorescence and Absorption," Biochem. 33:9592-9599, American Chemic Society, Washington D.C. (1994).							
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**Due Date:** None

1645 **Art Unit:** 

Examiner: To be assigned

Docket: 0942.4980002

**Application No.:** 09/599,594

> Atty: RWE/KKV

June 22, 2000 For: Improved Primers and Methods for the Detection and Discrimination of Nucleic Acids

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

Information Disclosure Statement (in duplicate);

A list of cited references on Form PTO-1449 (16 sheets);

Nazarenko et al.

A copy of each cited reference on Form PTO-1449 (125 references); and

One (1) Return Postcard.

Applicant:

Filed:

Please Date Stamp And Return To Our Courier